

PUBLICATIONS/PRESENTATIONS

JOURNAL PAPERS

Batteen, M.L. and Vance, P.W., "Modeling Studies of the Effects of Wind Forcing and Thermohaline Gradients on the California Current System," *Deep-Sea Research II*, Vol. 45, pp. 1507-1556, 1998.

Batteen, M.L. and Huang, M.J., "Effect of Salinity on Density in the Leeuwin Current System," *Journal of Geophysical Research*, Vol. 103, No. C11, pp. 24,693-24,721, 15 October 1998.

Batteen, M.L. and Butler, C.L., "Modeling Studies of the Leeuwin Current off Western and Southern Australia," *Journal of Physical Oceanography*, Vol. 28, pp. 2199-2221, November 1998.

Batteen, M.L. and Vance, P.-W., "Modeling Studies of the Effects of Wind Forcing and Thermohaline Gradients on the California Current System," *Research Activities in Atmospheric and Oceanic Modeling, CAS/JSC Working Group on Numerical Experimentation*, Vol. 27, 8.1, January 1998.

Coale, K.H., Johnson, K.S., Fitzwater, S.E., Blain, S.P., Stanton, T.P., and Coley T.L., "Ironex I, An In Situ Iron-Enrichment Experiment: Experimental Design, Implementation and Results," *Deep-Sea Research II*, 45, pp. 919-946, 1998.

Chu, P.C., Chen, Y.C., and Lu, S.H., "Temporal and Spatial Variabilities of Japan Sea Surface Temperature and Atmospheric Forcings," *Journal of Oceanography*, 54, pp. 273-384, 1998.

Chu, P.C., Fan, C.W., Lozano, C.J., and Kerling, J., "An AXBT Survey of the South China Sea," *Journal of Geophysical Research*, 103, pp. 21637-21652, 1998.

Craig, A.P., Bullister, J.L., Harrison, D.E., Chervin, R.M., and Semtner, A.J., "A Comparison of Temperature, Salinity, and Chloro-Fluorocarbon Observations With Results From a One-Degree Three-Dimensional Global Ocean Model," *Journal of Geophysical Research*, 103, pp. 1099-1120, 1998.

Faria, A.F.G., Thornton, E.B., Soares, C., Stanton, T.P., Soares, C.V., and Lippmann, T.C., "Vertical Profiles of Longshore Currents and Related Bed Shear Stress and Bottom Roughness," *Journal of Geophysical Research*, Vol. 103, C2, pp. 3217-3232 1998.

Faria, A.G., Thornton, E.B., Soares, C., and Stanton, T.P., "Bed Shear Stress Coefficients Related to Bed Roughness Across the Surf Zone," *Journal of Geophysical Research*, 103 (C2), pp. 3217-3232, 1998.

Feddersen, F., Guza, R.T., Elgar, S., and Herbers, T.H.C., "Longshore Momentum Balances in the Nearshore," *Journal of Geophysical Research*, 103(C8), pp. 15667-15676, 1998.

Gallagher, E.L., Elgar, S., and Thornton, E.B., "Observations and Predictions of Megaripple Migration in a Natural Surf Zone," *Nature*, Vol. 394, pp. 165-168, 1998.

Hunke, E.C. and Zhang, Y., "A Comparison of Sea Ice Dynamics Models at High Resolution," *Monthly Weather Review*, 127, pp. 396-408, 1999.

Kelly, K.A., Beardsley, R.C., Limeburner, R., Brink, K.H., Paduan, J.D., and Chereskin, T.K., "Variability of the Near-Surface Eddy Kinetic Energy in the California Current Based on Altimetric, Drifter, and Moored Current Data," *Journal of Geophysical Research*, Vol. 103, pp. 13067-13083, 1998.

Law, C.S., Watson, A.J., Liddicoat, M.I., and Stanton, T.P., "Sulfur Hexafluoride as a Tracer os Biogeochemical and Physical Processes in an Open Iron Fertilization Experiment," *Deep-Sea Research II* 45, pp. 977-994, 1998.

PUBLICATIONS/PRESENTATIONS

Maltrud, M.E., Smith, R.D., Semtner, A.J., and Malone, R.C., "Global Eddy-Resolving Ocean Simulations Driven by 1985-94 Atmospheric Fields," *Journal of Geophysical Research*, 103, pp. 30825-30854, 1998.

McPhee, M.G., Stanton, T.P., Morison, J.H., and Martinson, D.G., "Freshening of the Upper Ocean in the Central Arctic: Is Perennial Sea Ice Disappearing?" *Geophysical Research Letter*, 25, pp. 1729-1732, 1998.

McPhee, M.G., Stanton, T.P., Morison, J.H., and Martinson, D.G., "Freshening of the Upper Ocean in the Central Arctic: Is Perennial Sea Ice Disappearing?" *Geophysical Research Letter*, 25, pp. 1729-1732, 1998.

Norheim, C.A., Herbers, T.H.C., and Elgar, S., "Nonlinear Evolution of Surface Wave Spectra on a Beach," *Journal of Physical Oceanography*, 28(7), pp. 1534-1551, 1998.

Perkins, H., Hopkings, T.S., Malmberg, S.-A., Poulain, P.-M., and Warn-Varnas, A., "Oceanographic Conditions East of Iceland," *Journal of Geophysical Research*, 103(C10), pp. 21531-21542, 1998.

Petruncio, E.T., Rosenfeld, L.K., and Paduan, J.D., "Observations of the Internal Tide in the Monterey Submarine Canyon," *Journal of Physical Oceanography*, Vol. 28, pp. 1873-1903, 1998.

Ramp, S.R. and Abbott, C.L., "The Vertical Structure of Currents Over the Continental Shelf Off Point Sur, CA, During Spring 1990," *Deep-Sea Research II*, 45, 1443-1470, 1998.

Semtner, A.J. and Zhang, Y., "Antarctic Currents in High Resolution Ocean and Climate Models," *Annales Geophysicae, Book of Abstracts, Part II*, European Geophysical Union, Katlenburg-Lindau, Germany, p. 591, 1998.

Stanton, T.P., Law, C.S., and Watson, A.J., "Physical Evolution of the IRONEX-I Open Ocean Tracer Patch," *Deep-Sea Research II*, 45, pp. 947-976, 1998.

Stanton, T.P. and Ostrovsky, L., "Observations of Highly Nonlinear, Tidally Forced Solitons Over the Continental Shelf," *Geophysical Research Letter*, Vol. 25, No. 14, pp. 2695-2698, 1998.

Steger, J.M., Collins, C.A., Schwing, F.B., Noble, M., Garfield, N., and Steiner, M.T., "An Empirical Model of the Tidal Currents in the Gulf of the Farallones," *Deep-Sea Research, II*, 45, pp. 1471-1505, 1998.

Steger, J.M., Collins, C.A., and Chu, P.C., "Circulation in the Archipelago de Colon (Galapagos Islands), November 1993," *Deep-Sea Research II*, 45(6), pp. 1093-1114, 1998.

The Labrador Sea Group, "The Labrador Sea Deep Convection Experiment," *Bulletin of the American Meteorological Society*, 79, pp. 2033-2058, 1998.

Thornton, E.B., Swayne, J.L., and Dingler, J., "Small-Scale Morphology Related to Waves and Currents Across the Surf Zone," *Marine Geology*, 145 (3-4), pp. 173-196, 1998.

Zhang, Y. and Semtner, A.J., "Ocean-Ice Interaction Within the Weddell and Cosmonaut Seas From High-Resolution Models," *Annales Geophysicae*, European Geophysical Union, Katlenburg-Lindau, Germany, Supplement II to Volume 16, p. 592, 1998.

CONFERENCE PAPERS

Batteen, M.L., "Modeling Studies of Wind and Thermohaline Forcing in the California Current System," *Abstracts of the Ocean Sciences Meeting*, San Diego, CA, p. OS21, 9-16 February 1998.

PUBLICATIONS/PRESENTATIONS

Batteen, M.L., "Modeling Studies of Wind- and Thermally-Driven Eastern and Southern Boundary Coastal Regions," *Abstracts of the South East Indian Ocean and Great Australian Bight USA/Australia Bilateral Workshop*, Port Lincoln, Australia, 29 September 1998.

Chiu, C.-S., "Realistic Simulation Studies of Acoustic Signal Coherence in the Presence of an Internal Soliton Wavepacket," *Proceedings of the IOS/WHOI/ONR Internal Solitary Wave Workshop*, Victoria, Canada, 27-29 October 1998.

Chiu, C.-S., Morvillez, T., and Collins, C.A., "Monitoring Temperature Variability Along the California Coast Using Acoustic Tomography," *Proceedings of the 16th International Congress on Acoustics and the 135th ASA Meeting of the Acoustical Society of America*, pp. 387-388, June 1998.

Chu, P.C., Gottshall, E., and Halwachs, T.E., "Meteorological and Oceanographic (METOC) Support for Determining Safe Current in Magnetic Sea Mine Sweeping," *Third International Symposium on Technology and the Mine Problem* (CD-ROM), 6 pp., 1998.

Clynch, J.R., "Error Sources and Their Mitigation for PPS Shipborne Systems," *Proceedings of the ION GPS-98*, p. 551, Nashville, TN, 15-18 September 1998.

Fernandez, D.M., Vesecky, J.F., Teague, C.C., Paduan, J.D., and Laws, K.E., "Ship Detection With High-Frequency Phased-Array and Direction-Finding Radar Systems," *Proceedings of the IEEE International Geoscience and Remote Sensing Symposium*, Paper A08-11, Seattle, WA, July 1998.

Kovacevic, V., Gacic, M., and Poulain, P.-M., "Subtidal Water Flow Across the Strait of Otranto During Winter, Summer, and Autumn Periods," *Rapports de la Commission Internationale de la Mer Mediterranee*, 35, pp. 156-157, 1998.

Laws, K.E., Fernandez, D.M., Paduan, J.D., Teague, C.C., and Vesecky, J.F., "Simulation Studies of Errors in HF Radar Ocean Surface Current Measurements," *Proceedings of the IEEE International Geoscience and Remote Sensing Symposium*, Paper A08-9, Seattle, WA, July 1998.

Lippmann, T., Herbers, T., and Thornton, E., "The Cross-Shore Variation of Infragravity Wave Pressure and Velocities in Shallow Water," *Proceedings of Coastal Dynamics '97, ASCE*, pp. 1023-1032, 1998.

Ly, L.N., Luong, P., and Paduan J.D., "A Variable-Resolution 3-D Circulation Model for the Monterey Bay Region and Its Summer Simulations," American Geophysical Union Fall Meeting, San Francisco, CA, *EOS Transactions*, OS31A-9, December 1998.

Maslowski, W., McClean, J., Newton, R., Schlosser, P., Zhang, Y., Semtner, A.J., and Martinson, D.G., "Modeling Interannual Variability of the Arctic Ocean and Sea Ice Circulation," *EOS Transactions*, American Geophysical Union Fall Meeting, 79(45), p. 414, November 1998.

Murley, S.P., Maslowski, W., Bourke, R.H., Zhang, Y., and Semtner, A., "Variability of Freshwater Export Through Fram and Davis Straits From a High-Resolution Model," *EOS Transactions*, American Geophysical Union, Washington, DC, December 1998.

McClean, J.L., Maslowski, W., Tokmakian, R., Semtner, A.J., Craig, A.P., and Braccio, P., "A High Resolution Fully Global Ocean Model Forced with Daily ECMWF Wind Stresses, Heat, and Freshwater Fluxes for 1979-1997," *EOS Transactions*, American Geophysical Union Fall Meeting, 79(45), November 1998.

Poulain, P.-M., "Lagrangian Measurements of Surface Circulation in the Adriatic and Ionian Seas Between November 1994 and March 1997," *Rapports de la Commission Internationale de la Mer Mediterranee*, 35, pp. 190-191, 1998.

PUBLICATIONS/PRESENTATIONS

Poulain, P.-M. and Zanasca, P., "Drifter and Float Observations in the Adriatic Sea (1994-1996) - Data Report," *SACLANTCEN Memorandum*, SM-340, SACLANT Undersea Research Centre, La Spezia, Italy, 1998.

Poulain, P.-M., Nacini, E., Pouliquen, S., and Flament, P., "Adriatic Sea - Sea Surface Temperature Images From the NOAA Advanced Very High Resolution Radiometer: 9 May to 22 October, 1995," *CD-ROM, Institut francais de recherche pour l'exploitation de la mer*, Plouzane, France, 1998.

Rosenfeld, L.K. and Kunze, E., "Internal Waves in Monterey Canyon," *Coastal Ocean Processes Symposium Abstracts*, Woods Hole, MA, 27-30 September 1998.

Semtner, A.J. and Zhang, Y., "Antarctic Currents in High-Resolution Ocean and Climate Models," *Annales Geophysicae*, European Geophysical Union, Supplement II to Volume 16, p. 591, Nice, France, 20-24 April 1998.

Stanton, T.P., "Observations of Turbulence Associated With Highly Nonlinear Internal Solitons Over the Continental Shelf," *Proceedings of the IOS/WHIO/ONR Internal Solitary Waves Workshop*, 1998, <http://www.whoi.edu/science/AOPE/people/tduda/isww/text/>.

Teague, C.C., Fernandez, D.M., Laws, K.E., Paduan, J.D., and Vesecky, J.F., "Comparison of Multi-Frequency Phased-Array and Direction-Finding HF Radar Systems During COPE-3," *Proceedings of the IEEE International Geoscience and Remote Sensing Symposium*, Paper A08-10, Seattle, WA, July 1998.

Thornton, E.B., (ed.), *Proceedings of Coastal Dynamics '97*, American Society of Civil Engineering, 1070 pp, 1998.

Zhang, Y. and Semtner, A.J., "Ocean-Ice Interaction Within the Weddell and Cosmonaut Seas From High-Resolution Models," *Annales Geophysicae*, European Geophysical Union, Supplement II to Volume 16, p. 592, Nice, France, 20-24 April 1998.

CONFERENCE PRESENTATIONS

Asanuma, H., Chavez, F., Collins, C., Michisake, R., and Rago, T., "The California Current System Off Central California, 1997-8, American Geophysical Union Fall Meeting, San Francisco, CA, 6-10 December 1998.

Batteen, M.L., "Modeling Studies of Wind and Thermohaline Forcing in the California Current System," American Geophysical Union Ocean Sciences Meeting, San Diego, CA, 9 February 1998.

Batteen, M.L., "Modeling Studies of Wind-and Thermally-Driven Eastern and Southern Boundary Coastal Regions," South East Indian Ocean and Great Australian Bight USA/Australia Bilateral Workshop, Port Lincoln, Australia, 29 September 1998.

Bauer, S., Falco, P., Griffo, A., Poulain, P.-M., and Zambianchi, E., "Stima dei parametri del trasporto nel Mare Adriatico a partire da dati lagrangiani," XII National Congress of Associazione Italiana di Oceanologia e Limnologia, Portonovo (Ancona), Italy, 28-30 September 1998.

Boczar-Karakiewicz, B., Romanczyk, W., Bona, J.L., and Thornton, E.B., "Modeling the Dynamics of Bar System at Duck, NC, USA," International Conference on Coastal Engineering, Copenhagen, Denmark, 22-27 June 1998.

Bourke, R.H. and Wilson, J.H., "Development of an Arctic Low Frequency Ambient Noise Prediction Model," ONR-Polar Ice Prediction System (PIPS 3.0) Workshop, Monterey, CA, 7-9 July 1998.

Challenor, P.G. and Tokmakian, R., "Volume Transport Through Drake Passage From Altimetry," WOCE International Conference, Halifax, Nova Scotia, May 1998.

PUBLICATIONS/PRESENTATIONS

Chiu, C.-S., “The NPS Ocean Acoustic Observatory and Coastal Tomography,” First Meeting of the Ocean Acoustic Observatory Federation, La Jolla, CA, 9-10 September 1998.

Chiu, C.-S., “Realistic Simulation Studies of Acoustic Signal Coherence in the Presence of an Internal Soliton Wavepacket,” IOS/WHOI/ONR Internal Solitary Wave Workshop, Victoria, Canada, 27-29 October 1998.

Chiu C.-S., Lynch, J.F., Gawarkiewicz, G., Miller, C.W., and Sperry, B., “Tomographic Maps of the New England Shelfbreak Front,” American Geophysical Union Ocean Sciences Meeting, San Diego, CA, February 1998.

Chiu, C.-S., “Using SOSUS to Track Whale Migration,” International Advanced Studies Institute Symposium on Detection and Analysis of Subsurface Objects and Phenomena, Monterey, CA, 19-21 October 1998.

Chu, P.C., “Meteorological and Oceanographic (METOC) Support for Determining Safe Current in Magnetic Sea Mine Sweeping,” Third International Symposium on Technology and the Mine Problem, Monterey, CA, 6-9 April 1998.

Chu, P.C. and Gottshall, E., “METOC Support for Mine Countermeasure,” 66th Military Operations Research Society Symposium, Monterey, CA, 10-12 June 1998.

Chu, P.C., “Joint Simulation System (JSIMS) Maritime METOC Component,” Maritime Integrated Training Architecture, Naval Oceanographic Office, Stennis Space Center, MS, 21-22 September 1998.

Chu, P.C., “Meteorological and Oceanographic (METOC) Support for Determining Safe Current in Magnetic Sea Mine Sweeping,” Third International Symposium on Technology and the Mine Problem, Monterey, CA, 6-9 April 1998.

Chu, P.C. and Gottshall, E., “METOC Support for Mine Countermeasure,” 66th Military Operations Research Society Symposium, Monterey, CA, 10-12 June 1998.

Chu, P.C., “Joint Simulation System (JSIMS) Maritime METOC Component,” Maritime Integrated Training Architecture, Naval Oceanographic Office, Stennis Space Center, MS, 21-22 September 1998.

Cook, M.S. and Paduan, J.D., “A MATLAB-Based System for Processing HF Radar Data,” 45th Eastern Pacific Ocean Conference, Timberline, OR, September 1998.

Delgado, R., Paduan, J.D., Teague, C.C., and Vesecky, J.F., “Mapping Wind Directions Over Monterey Bay With HF Radar,” 45th Eastern Pacific Ocean Conference, Timberline, OR, September 1998.

Dugdale, R., Collins, C., Wilkerson, F., and Marchi, A., “Effects of San Francisco Bay on Surface Region Nutrients in Northern California Coastal Waters; A Comparison of 1997 and 1998 Non El Niño and El Niño Conditions,” 1998 Annual Meeting, Eastern Pacific Oceanic Conference, Timberline, OR, September 1998.

Elgar, S., O’Reilly, W.C., Raubenheimer, B., Guza, R.T., and Herbers, T.H.C., “Pier Effects on Wind Waves,” American Geophysical Union Fall Meeting, San Francisco, CA, December 1998.

Falco, P., Griffo, A., Poulain, P.-M., and Zambianchi, E., “Transport Processes in the Adriatic Sea Estimated From Lagrangian Data,” 1st National Congress on Marine Sciences – Diversita’ e Cambiamento, Consorzio Nazionale Interuniversitario per le Scienze del Mare (CONISMA), Ischia, Italy, 11-14 November 1998.

Feddersen, F., Guza, R.T., Elgar, S., and Herbers, T.H.C., “Alongshore Bottom Stress Parameterizations,” American Geophysical Union Fall Meeting, San Francisco, CA, December 1998.

PUBLICATIONS/PRESENTATIONS

Fernandez, D.M., Vesecky, J.F., Teague, C.C., Paduan, J.D., and Laws, K.E., "Ship Detection With High-Frequency Phased-Array and Direction-Finding Radar Systems," IEEE International Geoscience and Remote Sensing Symposium, Seattle, WA, July 1998.

Garwood, R.W., Jr. and Harcourt, R., "Large-Eddy Simulation of Labrador Sea Winter Deep Convection, Part I: Turbulent Kinetic Energy and Temperature and Salinity Variances," American Geophysical Society Ocean Sciences Meeting, San Diego, CA, 13 February 1998.

Garwood, Roland W., Jr., Guest, A.A., and Stougaard, P.O., "Response of Mixed-Layer Temperature and Salinity Patchiness to Westerly Wind Bursts," CLIVAR/GEWEX COARE98 Conference, Boulder, CO, 7-14 July 1998.

Griffa, A., Poulain, P.-M., and Zambianchi, E., "Validazione di modelli per variabilit  climatica usando dati in situ: il caso di dati Lagrangiani, vantaggi e difficolt ," Seasonal, Interannual and Decadal Variability of the Atmosphere, Ocean and Related Marine Ecosystems (SINAPSI) Workshop, Rome, Italy, 6-8 April 1998.

Griffa, A., Poulain, P.-M., and Zambianchi, E., "Estimates of Transport Parameters From Lagrangian Data in the Adriatic Sea," International Workshop on the Adriatic Sea Oceanography, Trieste, Italy, 21-25 September 1998.

Guest, A.A., Stougaard, P.O., and Garwood, R.W., Jr., "The Response of the Ocean Mixed Layer to Surface Forcing Events," CLIVAR/GEWEX COARE98 Conference, Boulder, CO, 7-14 July 1998.

Harcourt, R. and Garwood, R.W., Jr., "How Does Planetary Rotation Influence Deep Water Formation?" American Geophysical Union Fall Meeting, San Francisco, CA, 7 December 1998.

Harcourt, R. and Garwood, R.W., Jr., "Large-Eddy Simulation of Labrador Sea Winter Deep Convection, Part II: Simulation of Drifter Response to Deep Convection," American Geophysical Society Ocean Sciences Meeting, San Diego, CA, 13 February 1998.

Harcourt, R. and Garwood, R.W., Jr., "Fast, Deep, and Out of Control: Rotational Scaling of Turbulent Velocities and Entrainment," Labrador Sea Experiment Workshop, Big Fork, MT, 11 September 1998.

Herbers, T.H.C., Hendrickson, E.J., and O'Reilly, W.C., "Propagation of Swell Across a Wide Continental Shelf," Waves in Shallow Water Environments Meeting, Leuven, Belgium, May 1998.

Herbers, T.H.C., "Waves," Nearshore Research Workshop, St. Petersburg, FL, October 1998.

Herbers, T.H.C., "Phase-Resolving and Phase-Averaged Models," Waves in Shallow Water Environments Meeting, Leuven, Belgium, May 1998.

Herbers, T.H.C., Russnogle, N.R., and Elgar, S., "Field Observations of the Spectral Energy Balance in the Surf Zone," Waves in Shallow Water Environments Meeting, Leuven, Belgium, May 1998.

Kovacevic, V., Gacic, M., and Poulain, P.-M., "Subtidal Water Flow Across the Strait of Otranto During Winter, Summer, and Autumn Periods," 35th Congress of the Commission Internationale pour l'Exploration Scientifique de la Mer Mediterranee, Dubrovnik, Croatia, 1-5 June 1998.

Laws, K.E., Fernandez, D.M., Paduan, J.D., Teague, C.C., and Vesecky, J.F., "Simulation Studies of Errors in HF Radar Ocean Surface Current Measurements," IEEE International Geoscience and Remote Sensing Symposium, Seattle, WA, July 1998.

Laws, K.E., Fernandez, D.M., Paduan, J.D., and Vesecky, J.F., "Simulation Studies of Errors in HF Radar Ocean Surface Current Measurements," 45th Eastern Pacific Ocean Conference, Timberline, OR, September 1998.

PUBLICATIONS/PRESENTATIONS

Le, Ngoc Ly, Luong, P., and Paduan, J.D., "A Variable-Resolution, 3-D Circulation Model for the Monterey Bay Region and Its Summer Simulations," American Geophysical Union Fall Meeting, San Francisco, CA, December 1998.

Lipphardt, B.L., Kirwan, A.D., Grosch, C.E., Lewis, J.D., and Paduan, J.D., "Mapping the Surface Velocity Field in Monterey Bay," American Geophysical Union Ocean Sciences Meeting, San Diego, CA, February 1998.

Lippmann, T.C., Athwal, J.S., and Thornton, E.B., "Spatial and Temporal Variations in Average Wave Breaking Patterns," American Geophysical Union Fall Meeting, San Francisco, CA, 6-10 December 1998.

Luong, P. and Ly, L.N., "Advantage of Numerical Grid Techniques in Coastal Ocean Modeling," Eighth Annual DoD HPCMO User Group Conference, Orlando, FL, August 1998.

Ly, L.N., Luong, P., and Paduan J.D., "A Variable-Resolution 3-D Circulation Model for the Monterey Bay Region and Its Summer Simulations," American Geophysical Union Fall Meeting, San Francisco, CA, Transactions, OS31A-9, December 1998.

Ly, L.N., "On a Numerical Simulation of Summer Circulation for Monterey Bay," Seventh International Conference HYDROSOFT-98, Como, Italy, September 1998.

Ly, L.N. and Luong P., "On Monterey Bay Circulation Simulations," Eighth Annual DoD HPCMO User Group Conference, Orlando, FL, August 1998.

Ly, L.N. and Luong, P., "On Winter Circulation of the South China Sea Using a Coastal Ocean System With Breaking Wave Effects and Numerical Grids," American Geophysical Union Western Pacific Geophysics Meeting, Taipei, Taiwan, July 1998.

Ly, L.N. and Luong, P., "NAM Ocean Modeling System Development and an Application to the South China Sea," South China Sea International Workshop, HoChiMinh-City, Vietnam, June 1998.

Ly, L.N. and Luong, P., "A Three Dimensional Modeling for the Monterey Bay Circulation," National Oceans Conference, Monterey, CA, 1998.

Ly, L.N., "A Numerical Study of Turbulent Dissipation Rate Under Surface Breaking Waves," American Geophysical Union Ocean Sciences Meeting, San Diego, CA, February 1998.

Maslowski, W., "Arctic Modeling Effort at the Naval Postgraduate School," IARC-FRONTIER Workshop, University of Alaska, Fairbanks, AK, 9-12 March 1998.

Mauri, E., Poulain, P.-M., and Gacic, M., "Surface Circulation of the Adriatic Sea From Satellite and Lagrangian Data: Preliminary Results," International Workshop on the Adriatic Sea Oceanography, Trieste, Italy, 21-25 September 1998.

Mauri, E. and Poulain, P.-M., "Adriatic Sea Circulation as Derived From Seawifs, AVHRR and Drifter Data," American Geophysical Union Fall Meeting, San Francisco, CA, 6-10 December 1998.

Maslowski, W., "Modeling Interannual Variability of the Arctic Ocean and Sea Ice Circulation," 49th Arctic Science Conference, Fairbanks, AK, 25-28 October 1998.

Maslowski, W., "Current State of Arctic Sea Ice - Ocean Modeling," 1st Session of the ACSYS Numerical Experimentation Group Meeting, Institute fur Meereskunde, Kiel, Germany, 16-19 November 1998.

PUBLICATIONS/PRESENTATIONS

Maslowski, W., McClean, J., Newton, R., Schlosser, P., Zhang, Y., Semtner, A.J., and Martinson, D.G., "Modeling Interannual Variability of the Arctic Ocean and Sea Ice Circulation," American Geophysical Union Fall Meeting, San Francisco, CA, 6-10 December 1998.

McClean, J.L., Maltrud, M., Tokmakian, R., Maslowski, W., and Semtner, A., "A Suite of High Resolution Global Ocean Models: Descriptions and Analyses in the Indian Ocean," World Ocean Circulation Experiment Indian Ocean Workshop, New Orleans, LA, 22-25 September 1998.

McClean, J.L., "Global Ocean POP Simulations and Data Comparisons," Climate Change Prediction Program Meeting, Mesa, AZ, 12-14 October 1998.

McClean, J. L. and Maltrud, M., "Overturning and Interbasin Thermohaline Circulation in the LANL POP Model," American Geophysical Union Ocean Sciences Meeting, San Diego, CA, February 1998.

McClean, J.L. and Maltrud, M., "Water Masses and Heat Transports in POP," 1998 Conference of the World Ocean Circulation Experiment and Climate, Halifax, Canada, 19-24 May 1998.

McClean, J.L., Maslowski, W., Tokmakian, R., Semtner, A.J., Craig, A.P., and Braccio, P., "A High Resolution Fully Global Ocean Model Forced With Daily ECMWF Wind Stresses, Heat and Freshwater Fluxes for 1979-1997," American Geophysical Union Fall Meeting, San Francisco, CA, December 1998.

Morvillez, T., Chiu, C.-S., Collins, C.A., "Monitoring Temperature Variability Along the California Coast Using Acoustic Tomography," 16th International Congress on Acoustics and 135th Meeting of the Acoustical Society of America, Seattle, WA, 20-26 June 1998.

Murley, S.P., Maslowski, W., Bourke, R.H., Zhang, Y., and Semtner, A.J., "Variability of Fresh Water Export Through Fram Strait and Davis Straits From a High Resolution Model," American Geophysical Union Fall Meeting, San Francisco, CA, 6-10 December 1998.

Noyes, T.J., Guza, R.T., Elgar, S., and Herbers, T.H.C., "Observations of Shear Waves in the Surf Zone," American Geophysical Union Fall Meeting, San Francisco, CA, December 1998.

Orzech, M.D. and Herbers, T.H.C., "Boussinesq Model Simulations of the Evolution of Wave Spectra Over a Sand Bar," American Geophysical Union Fall Meeting, San Francisco, CA, December 1998.

Paduan, J.D., "Coastal Oceanographic Processes," National Weather Service Marine Forecasters Workshop, Monterey, CA, June 1998.

Pierce, R.D. and Herbers, T.H.C., "A New Hamiltonian Model for Shoaling Waves," American Geophysical Union Fall Meeting, San Francisco, CA, December 1998.

Paduan, J.D., "Coastal Oceanographic Processes," National Weather Service Marine Forecasters Workshop, Monterey, CA, June 1998.

Paduan, J.D., "Overview of the NOPP/ICON Project," National Ocean Partnership Program Initiation Workshop, Portland, OR, September 1998.

Paduan, J.D., "Overview of the NOPP/ICON Project," National Ocean Partnership Program Initiation Workshop, Portland, OR, September 1998.

Paduan, J.D., "Coastal Oceanographic Processes," National Weather Service Marine Forecasters Workshop, Monterey, CA, June 1998.

PUBLICATIONS/PRESENTATIONS

Poulain, P.-M., Gacic, M., Sellschopp, J., and Niiler, P., "Recent Lagrangian Measurements of Surface Circulation in the Adriatic and Ionian Seas," American Geophysical Union Ocean Sciences Meeting, San Diego, CA, 9-13 February 1998.

Poulain, P.-M., "Lagrangian Measurements of Surface Circulation in the Adriatic and Ionian Seas Between November 1994 and March 1997," 35th Congress of the Commission Internationale pour l'Exploration Scientifique de la Mer Mediterranee, Dubrovnik, Croatia, 1-5 June 1998.

Poulain, P.-M., "Twenty Years of Lagrangian Measurements in the Adriatic Sea: A Review," International Workshop on the Adriatic Sea Oceanography, Trieste, Italy, 21-25 September 1998.

Poulain, P.-M. and Schlining, B., "Variability of the Surface Circulation in the Ionian Sea as Deduced From Drifter Trajectories," American Geophysical Union Fall Meeting, San Francisco, CA, 6-10 December 1998.

Ramp, S.R. and Bluth, R.T., "Plans and Progress at the Naval Postgraduate School's Remotely Piloted Aircraft Center," Eastern Pacific Oceanographic Conference, Timberline, OR, 23-26 September 1998.

Rosenfeld, L.K. and Kunze, E., "Internal Waves in Monterey Submarine Canyon: Preliminary Results," American Geophysical Union, 1998.

Rosenfeld, L.K. and Kunze, E., "Internal Waves in Monterey Canyon," Coastal Ocean Processes, Woods Hole, MA, 27-30 September 1998.

Semtner, A.J., Maslowski, W., and Zhang, Y., "Arctic Ice and Ocean Prediction at High Resolution on Parallel Machines," Navy Workshop on the Polar Ice Prediction System, Monterey, CA, 13-14 July 1998.

Semtner, A.J. and Zhang, Y., "Antarctic Currents in High-Resolution Ocean and Climate Simulations," Annual Symposium of the European Geophysical Society, Nice, France, 20-24 April 1998.

Semtner, A.J., "Arctic Ice and Ocean Prediction at High Resolution on Parallel Machines," Navy Workshop on the Polar Ice Prediction System, Monterey, CA, 13-14 July 1998.

Semtner, A.J., "Arctic Ocean and Ice Circulation Models: Results and Future Directions," National Science Foundation Workshop on Arctic Research Priorities, Arlington, VA, 2-4 September 1998.

Semtner, A.J., "The DoE Parallel Climate Model," DoE-Sponsored Workshop on Strategic Simulation for the Jasons, La Jolla, CA, 1-3 July 1998.

Semtner, A.J., "Modeling Decadal to Century Climate Change on Parallel Computers," Science Team Meeting for the DoE Climate Change Prediction Program, Phoenix, AZ, 12-13 October 1998.

Semtner, A.J., "Ocean Climate Modeling on Advanced Parallel Computers: Progress and Prospects," Supercomputing '98 - Tenth Anniversary Conference, Orlando, FL, 17-19 October 1998.

Semtner, A.J., "WOCE Data Requirements for Ocean Circulation Modeling," World Ocean Circulation Data Products Meeting, Honolulu, HI, 5-8 January 1998.

Semtner, A.J., "Antarctic Circulation From High-Resolution Models," Antarctic Ocean Workshop of Lamont Doherty Earth Observatory, Palisades, NY, 1-3 June 1998.

Semtner, A.J., "Modeling Southern Ocean Circulation on Parallel Computers," Climate System Modeling Workshop and Advisory Board Meeting, Breckenridge, CO, 15-18 July 1998.

PUBLICATIONS/PRESENTATIONS

Stanton, T.P., "The Stability and Contribution to Upper Ocean Mixing of Strongly Nonlinear SIW Observed Over the Continental Shelf," American Geophysical Union Ocean Sciences Meeting, San Diego, CA, February 1998.

Stanton, T.P., "Observations of Turbulence Associated With Highly Nonlinear Internal Solitons Over the Continental Shelf," Mount Hood, OR, October 1998.

Stanton, T.P. and Thornton, E.B., "Observations of Void Fraction and Turbulent Dissipation in the Surf Zone," American Geophysical Union Fall Meeting, San Francisco, CA, December 1998.

Stone, R., Garwood, R.W., Jr., Guest, P.S., and Harcourt, R., "1-D Modeled Temperature Variance Compared to Greenland Sea Drifter Data," American Geophysical Union Ocean Sciences Meeting, San Diego, CA, 9-13 February 1998.

Stone, R., Garwood, R.W., Jr., and Harcourt R., "Simulation of Thermobaric Plumes," Fall Annual Meeting of the American Geophysical Union Fall Meeting, San Francisco, CA, 7 December 1998.

Teague, C.C., Fernandez, D.M., Laws, K.E., Paduan, J.D., and Vesecky, J.F., "Multi-Frequency Phased-Array and Direction-Finding HF Radar System Observations During COPE-3," American Geophysical Union Spring Meeting, Boston, MA, May 1998.

Teague, C.C. and Laws, K.E., "HF Multi-Frequency Ocean-Current Radar: MUSIC Direction Finding Vs. Beam Formation," URSI Conference, Lisbon, Portugal, June 1998.

Teague, C.C., Vesecky, J.F., Paduan, J.D., Fernandez, D.M., and Onstott, R.G., "Multi-Frequency and Codar-Type HF Radar Observations of Surface Currents in Monterey Bay," American Geophysical Union Ocean Sciences Meeting, San Diego, CA, February 1998.

Thornton, E.B., "Waves and Currents in the Surf Zone," Autonomous Underwater Vehicle Conference, Monterey, CA, 14 January 1998.

Thornton, E.B., Wiersma, F., and Stanton, T.P., "Longshore Current Vertical Profiles During SandyDuck," 26th International Conference on Coastal Engineering, Copenhagen, Denmark, 22-27 June 1998.

Thornton, E.B., Huck, M.P., and Stanton, T.P., "Vertical and Horizontal Length Scales of Suspended Sediments in the Nearshore," American Geophysical Union Fall Meeting, San Francisco, CA, 6-10 December 1998.

Thornton, E.B., "Modeling Undertow, Longshore Currents, and Sediment Transport," Conference on the Beach, Ottawa, Canada, 7-9 January 1998.

Thornton, E.B., "Large-Scale Experiments in the U.S., Duck 1982-97," Conference on the Beach, Ottawa, Canada, 7-9 January 1998.

Tokmakian, R., McClean, J.L., Semtner, A.J., and Braccio, P., "A High Resolution Global Ocean Model With Variable Forcing of Wind, Heat, and Freshwater: I) Initial Evaluation," 1998 Conference of the World Ocean Circulation Experiment and Climate, Halifax, Canada, 19-24 May 1998.

Tokmakian, R., McClean, J., Semtner, A., and Braccio, P., "Surface Detectable Ocean Climate Signals: Satellite Data and an Ocean Model Simulation," TOPEX/POSEIDON Science Team Meeting, Keystone, CO, 13-15 October 1998.

Tokmakian, R., McClean, J.L., Semtner, A.J., and Braccio, P., "Surface Detectable Oceanic Climate Signals: Satellite Data and an Ocean Model Simulation," Jason/Topex Science Working Team Meeting, Keystone, CO, October 1998.

PUBLICATIONS/PRESENTATIONS

Tokmakian, R., McClean, J., Semtner, A.J., and Braccio, P., "A High Resolution Global Ocean Model With Variable Forcing of Wind, Heat, and Freshwater: I) Initial Evaluation," WOCE International Conference, Halifax, Nova Scotia, May 1998.

Tokmakian, R., "A High Resolution Global Ocean Model With Variable Forcing of Wind, Heat, and Freshwater: II) Transports," WOCE International Conference, Halifax, Nova Scotia, May 1998.

Tokmakian, R., Altimeter Data and an Ocean Model Simulation: Connecting and Understanding Disjoint Altimetric SSH Time Series," American Geophysical Union Fall Meeting, San Francisco, CA, November 1998.

Vesecky, J.F., Teague, C.C., Paduan, J.D., Fernandez, D.M., Laws, K.E., Hallock, Z.R., and Meadows, L.A., "Observations of Air-Sea Dynamics by Multi-Frequency HF Radar and Other Environmental Sensors Outside the Mouth of Chesapeake Bay During the COPE-3 Experiment of October-November 1997," American Geophysical Union Spring Meeting, Boston, MA, May 1998.

Washburn, L., Emery, B.M., and Paduan, J.D., "Preliminary Results From an Array of HF Radars for Mapping Surface Currents in the Santa Barbara Channel," American Geophysical Union Fall Meeting, San Francisco, CA, December 1998.

Wilson, J.H., Bourke, R.H., and Fabre, J.P., "The Generation of Ambient Noise due to Breaking Surf," Joint Meeting of the Acoustical Society, Seattle, June 1998.

Zhang, Y., "Multi-Year Variability of Arctic and Antarctic Sea Ice in High-Resolution Coupled Ice Ocean Models," Climate Change Prediction Program Meeting, Phoenix, AZ, 12-14 October 1998.

TECHNICAL REPORTS

Bryan, D.W., Batteen, M.L., and Buch, E.J., "A Wind-Forced Modeling Study of the Canary Current System From 30 N to 42.5 N," Naval Postgraduate School Technical Report, NPS-OC-98-003, June 1998.

Chiu, C.-S. and Denner, W.W., "Report on the Office of Naval Research International Workshop on Shallow Water Acoustics, San Francisco, CA, 8-9 December 1997," Naval Postgraduate School Technical Report, NPS OC-98-002PR, March 1998.

Chiu, C.-S. and Denner, W.W., "Report on the Office of Naval Research International Phase II Workshop on Shallow Water Acoustics," Seattle, WA, 27 June 1998," Naval Postgraduate School Technical Report, NPS OC-98-005PR, September 1998.

Cipriano, N.J., Batteen, M.L., and Monroe, J.T., "Analysis of Eddy-Resolving Model of the California Current System," Naval Postgraduate School Technical Report, NPS-OC-98-004, September 1998.

Harcourt, R., Jiang, L., and Garwood, R.W., Jr., "Numerical Simulation of Drifters Response to Labrador Sea Convection," Naval Postgraduate School Technical Report, NPS-OC-98-001, February 1998.

BOOKS

Bourke, R.H. and Curtin, T.B., (eds.), "Arctic Studies," *Naval Research Reviews*, 1 (1), 1998.

Garwood, R.W., Jr., Jiang, L., and Harcourt, R., "Simulating the Response of Drifters to Deep Convection," *High Performance Computing*, DoD High Performance Computing Modernization Office, Arlington, VA, May 1998.

PUBLICATIONS/PRESENTATIONS

Thornton, E.B., (ed.), *Proceeding of Coastal Dynamics '97, American Society of Civil Engineering*, 1070 pp, 1998.

CONTRIBUTIONS TO BOOKS

Chervin, R.M., Craig, A.P., and Semtner, A.J., "Meridional Heat Transport Variability From a Global Eddy-Resolving Ocean Model," *Assessing Climate Change*, W. Howe and A. Henderson-Sellers, (eds.), Gordon and Breach Science Publishers, Roseville, Australia, 1998, in press.

Ly, L.N. and Luong P., "A Numerical Simulation of Summer Circulation for Monterey Bay," *Coastal Hydrodynamics Modeling, Hydraulic Engineering Software VII*, W.R. Blain, (ed.), Computational Mechanics Publications, pp. 269-277, 1998.

Ly, L.N. and Luong, P., "A Ocean Modeling System Development and an Application to the South China Sea Simulation," *Hydrometeorology Topics of the South China Sea*, H.V. Phan (ed.), pp. 81-100, Center for Hydrometeorology of South Vietnam.

PATENT

Turbulence-Resolving Coherent Acoustic Sediment Flux Probe, U.S. Navy application number 77525.

OTHER

Chu, P.C., "Toward Accurate Coastal Ocean Prediction," *Naval Research Review*, L, pp. 31-37, 1998.

Collins, C.A., Garfield, N., Paquette, R., Rago, T., and Carter, E., "Subsurface Lagrangian Measurements in the Northeastern Pacific Ocean," *Naval Research Review*, L, (2), pp. 20-23, 1998.

Garwood, R.W., Jr., Harcourt, R.R., and Stone, R.E., "Simulation of Drifters in a Turbulent Ocean," *Naval Research Reviews*, Vol. L, K.L. Davidson, (ed.), pp. 8-12, 1998.

Garwood, R.W., "NPS Mixed Layer Model" code has been requested and distributed to a variety of international researchers and is now available for interactive use via a web-based interface (<http://www.oc.nps.navy.mil/opbl/>).

Ly, L.N. and Luong P., "A New Advance in Coastal Ocean Modeling: Application of the Grid Generation Technique," *High Performance Computing Contributions to DoD Mission Success*, p. 113, 1998.

Lynn, R.J., Baumgartner, T., Collins, C.A., Garcia, J., Hayward, T.L., Hyrenback, K.D., Mantyla, A.W., Murphree, T., Shankle, A., Schwing, F.B., Sakuma, K.M., and Tegner, M.J., "The State of the California Current, 1997-1998: Transition to El Niño Conditions," *CalCOFI Reports* 9-25, 1998.

Poulain, P.-M. and Zanasca, P., "Drifter and Float Observations in the Adriatic Sea (1994-1996) - Data Report," SACLANTCEN Memorandum, SM-340, SACLANT Undersea Research Centre, La Spezia, Italy, 1998.

Poulain, P.-M., Nacini, E., Pouliquen, S., and Flament, P. "Adriatic Sea - Sea Surface Temperature Images From the NOAA Advanced Very High Resolution Radiometer: 9 May to 22 October, 1995," CD-ROM, Institut français de recherche pour l'exploitation de la mer, Plouzane, France, 1998.

PUBLICATIONS/PRESENTATIONS

Tokmakian, R., "A High Resolution Ocean Model With Variable Forcing of Wind, Heat, and Freshwater: Initial Evaluation," *International WOCE Newsletter*, No. 32, September 1998.

Tokmakian, R., McClean, J.L., and Semtner, A.J., "Understanding Seasonal to Decadal Climate Changes Using Models and Satellite Data," *AVISO Altimetry Newsletter*, 6, pp. 113-115, 1998.

Tokmakian, R., "The Use of Satellite Data With Global Ocean Models in Climate Research, Presentation Before Committee on Earth Studies," Space Science Board, Washington, DC, 21 April 1998.

Vesecky, J., Teague, C., Fernandez, D., Paduan, J., Daida, J., Onstott, R., Laws, K., and Hansen, P., "Coastal Surface Currents With HF Radar," *Backscatter*, published by the Alliance for Marine Remote Sensing Association, pp. 12-20, August 1998.